Mohammad Esmail Aryaee Panah - DTU Orbit (03/12/2017)

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Department of Photonics Engineering - PhD Student, Former

Publications:

**Advanced fabrication of hyperbolic metamaterials**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**Enhancing Optical Forces in InP-Based Waveguides**
Panah, M. E. A., Semenova, E. & Lavrinenko, A. 2017 In : Scientific Reports. 7, 1, 8 p., 3106
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Highly ordered Al-doped ZnO nano-pillar and tube structures as hyperbolic metamaterials for mid-infrared plasmonics**
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

**Highly Ordered Transparent Conductive Oxide Nanopillar Metamaterials for Mid-Infrared Plasmonics**
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

**Large-scale high aspect ratio Al-doped ZnO nanopillars arrays as anisotropic metamaterials.**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Mid-infrared Surface Waves on a High Aspect Ratio Nanotrench Platform**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Mid-IR optical properties of silicon doped InP**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Conductive Oxides Trench Structures as Hyperbolic Metamaterials in Mid-infrared Range**
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

**Highly doped InP as a low loss plasmonic material for mid-IR region**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Hyperbolic Metamaterials with Complex Geometry**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Silicon doped InP as an alternative plasmonic material for mid-infrared
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Surface Plasmons on Highly Doped InP
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Surface waves on metal-dielectric metamaterials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Surface Waves on Metamaterials Interfaces
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Averaged cov-driven subspace identification for modal analysis of a modified troposkien blade with displacement measurement
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Overcoming doping limits in MOVPE grown n-doped InP for plasmonic applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Transient Vibration of a MRE Based Sandwich Beam
Publication: Research - peer-review › Journal article – Annual report year: 2014

Dynamic response control of an electro-rheological fluid-based adaptive plate resting on elastic foundation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Flutter suppression of an elastically supported plate with electro-rheological fluid core under yawed supersonic flows
Publication: Research - peer-review › Journal article – Annual report year: 2013

Modal Acoustic Impedance of an Infinite Cylindrical Source Immersed in an Unbounded Thermoviscous Fluid
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Supersonic flutter suppression of electro-rheological fluid-based adaptive panels resting on elastic foundations using sliding mode control
Hasheminejad, S. M., Nezami, M. & Panah, M. E. A. 2012 In : Smart Materials and Structures. 21, 16 p., 045005
Publication: Research - peer-review › Journal article – Annual report year: 2012
Modal acoustic impedance of a finite-size spherical source immersed in an unbounded viscoelastic liquid
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Vibration Suppression of an Elastic Plate by Use of an Electrorheological Patch and Constraining Layer
Publication: Research - peer-review › Journal article – Annual report year: 2010

Projects:

Design and fabrication of mid-infrared plasmonic materials based on highly doped III-V semiconductors
Panah, M. E. A., Lavrinenko, A., Semenova, E., Yvind, K., Bordo, V. G. & Engheta, N. 15/02/2014 → 23/08/2017
Project: PhD